

# PATENT ABSTRACTS OF JAPAN

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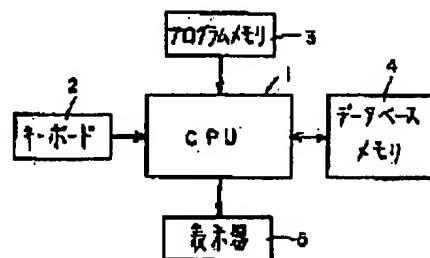
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## (54) METHOD FOR SELECTING MATERIAL OF SKI PLATE HAVING CAMBER WITH SMALL TEMPERATURE DEPENDENCE

### (57)Abstract:

**PURPOSE:** To estimate the warpage of a ski plate and to select a material for the ski plate in which temperature dependency of camber is little by selecting the material so as to make the sum of the axial force around the neutral axis of the ski plate and the sum of the bending moment around the neutral axis to be zero.

**CONSTITUTION:** The number of laminates, the number of divisions in the width direction and the total length of a plate as cross-sectional informations of the ski plate in the width direction, upper and lower limit values of bending rigidity and curvature as design reference values and temp. slope are inputted into a CPU 1 from a key board 2. In addition, physical values of the material recorded in a database memory 4 are read. The CPU 1 optimizes the thickness of the plate based on the input data and calculates combination or the laminate constitution. Then, the curvature is calculated but, as warpage is not generated when the sum of the axial force around the neutral axis and the sum of the bending moment around the neutral axis are zero, this boundary condition is obtd. by operation of a specified equation and the name of the material to be used, the order of lamination, the curvature, the



neutral axis, the amt. of deformation caused by warpage and the bending rigidity are displayed on a display 5.

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